Renewable Energy Feasibility Study

Ft. Mojave Indian Reservation

FY 2003 Program and Project Review Meeting November 17-20, 2003

Fort Mojave Indian Reservation



44,000 acres in AZ, CA and NV 14,000 acres of irrigated farmland 1000 Tribal members

Project Background

- Aha Macav Power Service distributes energy on the reservation formed 1991
- One of several important tribal enterprises
 - Farm, casino, RV park, construction firm, telecommunications, water/sewer, housing developments
- Need for increased tribal energy supplies
 - Result of aggressive and successful economic projects
- Other fossil/nuclear energy supplies are available
- Tribal interest in investigating feasibility and desirability of renewable energy sources
 - Reduce energy dependence of off-reservation sources
 - Demonstrate Tribe's support for improving environmental quality, sustainability, and energy independence on- and off-reservation
- Feasibility study team led by Russell Gum, PhD

Project Team Members

- Russell Gum, PhD Project Manager
- Charlie McCauley, PhD Review solar, wind and environmental issues
- Eric Oswald, PhD NEPA issues; multiple objective planning
- Jeff Oldham PV and energy efficiency
- Paul Brown, PhD Meteorologist
- Tom McGuire, PhD Anthropologist; cultural issues
- Del Wakimoto Crop management
- General Manager, Aha Macav Power Service Energy distribution, marketing

Project Stages/Objectives

- Identification of resources
- Identification of technologies
- Definition of goals of economic development, environmental quality, sustainability, and energy independence
- Technical, economic, and environmental analysis to select potentially practical and effective technologies
- Detailed analysis of those technologies meeting the potentially practical and effective test
- Develop a detailed plan for implementation

Potential Energy Resources

- Crop waste from 14,000 acres of irrigated land
- Solar energy
- Wind energy
- Animal manure



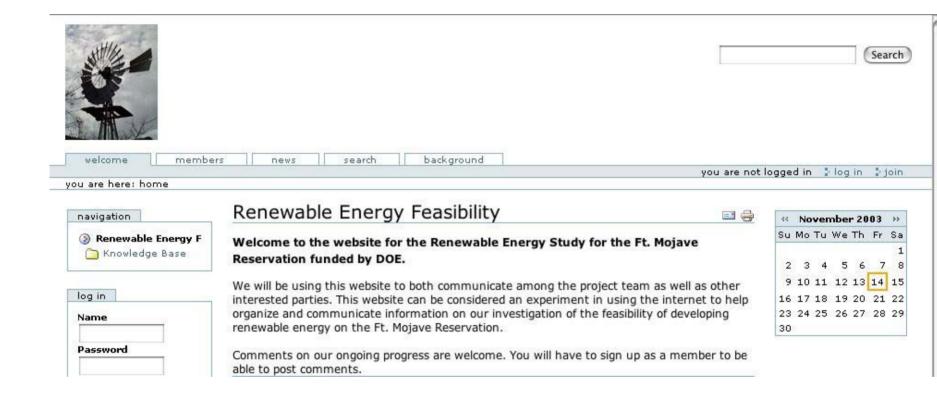


Possible Technologies



- Wind turbines
- Biodigester
- Fuel Pellets
- Gasification
- PV
- Biodiesel

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- Open access to the information and process we are using for the feasibility study.
- Use our information.
- Add to this shared information base.

Knowledge Base

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Comments Welcome

